

Service Manual

VIDEO CAMERA LENS

WV-LZ10/12E, WV-LZ11/ 6
WV-LZ11/12, WV-LZ30/12



WV-LZ10/12E

WV-LZ11/6

WV-LZ11/12

WV-LZ30/12

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SPECIFICATIONS

Model Specification		WV-LZ10/12		WV-LZ11/6		WV-LZ11/12		WV-LZ30/12	
Focal Length		10~120mm		12.5~75mm		10~120mm		10~120mm	
Maximum Aperture Ratio		1 : 2		1 : 1.4(Wide)' 1 : 1.5(Tele)		1 : 1.6(Wide) 1 : 1.2(Tele)		1 : 1.6(Wide) 1 : 2.1(Tele)	
Angular Field of View		Wide	Tele	Wide	Tele	Wide	Tele	Wide	Tele
	H	46.2°	4.2°	39.2°	6.6°	46.3°	4.1°	46.9°	4.3°
	V	35.3°	3.1°	29.4°	5.2°	34.5°	3.1°	35.8°	3.2°
Picture Size		6(H)x4.5(V)mm (1/2" Pick-up Tube)			8.8(H) x 6.6(V)mm (2/3" Pick-up Tube)				
Focus Control		Manual							
Focusing Range	Manual	4ft ~ ∞ (1.2m ~ ∞)		3.3ft ~ ∞ (1m ~ ∞)		3.3ft ~ ∞ (1m ~ ∞)		3.3ft ~ ∞ (1m ~ ∞)	
	Macro	0.17ft ~ 4ft (50mm ~ 1.2m)		0.33ft ~ 3.3ft (10mm ~ 1m)		0.17ft ~ 3.3ft (50mm ~ 1m)		0.17ft ~ 3.3ft (50mm ~ 1m)	
Power Source		12V DC (Supplied from TV camera)							
Video Input		Composite Video Signal (Supplied from TV camera)							
Sensitivity		1.0 Vp-p Video signal level							
Iris Control		Auto/Manual		Auto/Manual		Auto/Manual		Auto/Manual	
Opeical Filter Size		φ 72mm P=0.75 (2-13/16")		55mm P=0.75 (2-3/16")		φ 72mm P=0.75 (2-13/16")		φ 77mm P=0.75 (3-1/16")	
Ambient Temperatvre		+14 F~+122 F (-10°C ~ +50°C)							
Mounting		C Mount		C Mount		Special Mount		Bayonet Mount	
Dimensions	H	5-1/2" (139mm)		4-7/8" (124mm)		6-1/16" (154mm)		7" (178mm)	
	W	2-13/16" (72mm)		2-13/16" (72mm)		4-9/16" (116mm)		4-11/16" (119mm)	
	D	2-13/16" (72mm)		2-5/16" (58mm)		2-13/16" (72mm)		3-1/16" (77mm)	
Weight		1.6 lbs (0.7Kg)		1.2 lbs (0.5Kg)		2.6 lbs (1.2Kg)		3.4 lbs (1.5Kg)	

CAMERA LENS FOR WV-LZ10/12

1 Disassembly Procedure

- Remove three screws which hold the iris back cover and remove the iris back cover. (Fig. 1)

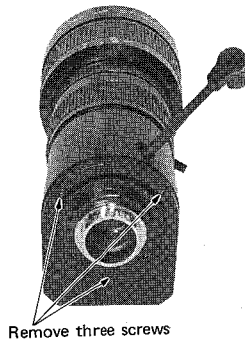


Fig. 1

- Remove three screws which hold the lens mounting assembly and remove the lens mounting assembly. (Fig. 2)

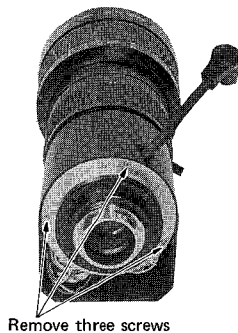


Fig. 2

- Remove two screws which hold the zoom motor assembly and remove the zoom motor assembly. (Fig. 3)
- Remove three screws which hold the ALC assembly and remove the ALC assembly. (Fig. 3)

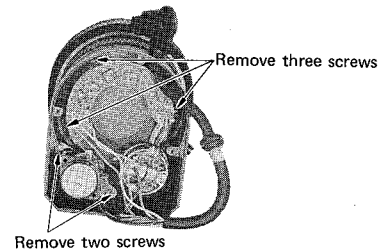


Fig. 3

- Note :**
- When changing the ALC assembly, disconnect the six wires from the 8 pin connector.
 - When changing the zoom motor assembly, disconnect the two wires from the 8 pin connector.
 - When changing the 8 pin connector, disconnect the eight wires and cut the binder.
 - When changing the 8 pin connector, make sure that the binder is also replaced to new one if it is cut or deformed.
 - When changing the binder, install the binder at 8 cm from the 8 pin connector head.
- Remove three screws which hold the iris cover and remove the iris cover. (Fig. 4)

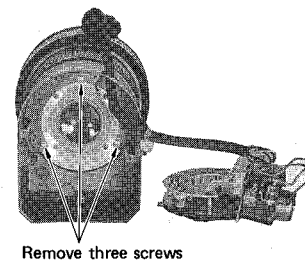
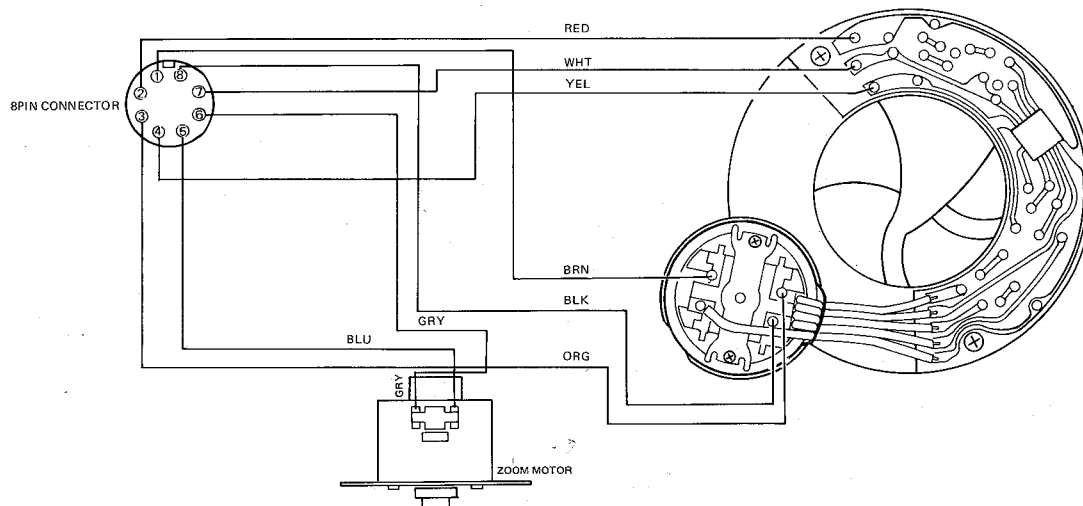


Fig. 4

- After replacing the parts, reinstall the lens in reverse order of disassembly procedure.
- When changing the lens mounting assembly, clean the lens with lens cleaning tissue.

WIRING DIAGRAM OF WV-LZ10/12



CAMERA LENS FOR WV-LZ11/6

1 Disassembly Procedure

- Remove three screws which hold the iris back cover and remove the iris back cover. (Fig. 5)

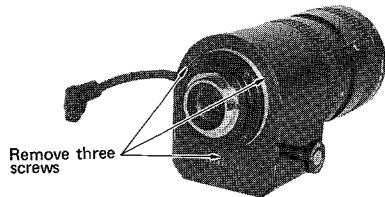


Fig. 5

- Remove three screws which hold the lens mounting assembly and remove the lens mounting assembly. (Fig. 6)
- Loosen one screw which hold the manual knob assembly and remove the manual knob assembly. (Fig. 6)

Note: When removing the manual knob assembly, pull out straight, slowly and deliberately.

- Remove two screws which hold the switch board assembly and remove the switch board assembly. (Fig. 6)

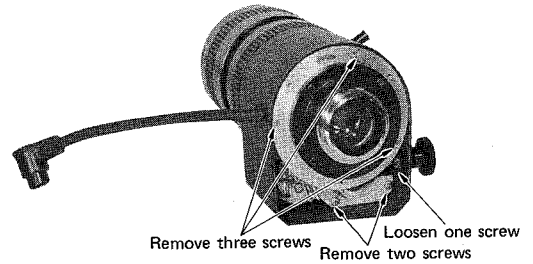


Fig. 6

- Remove one screw and switch post which hold the zoom motor assembly and remove the zoom motor assembly. (Fig. 7)

Note: When changing the zoom motor assembly, disconnect the two wires from the 8 pin connector.

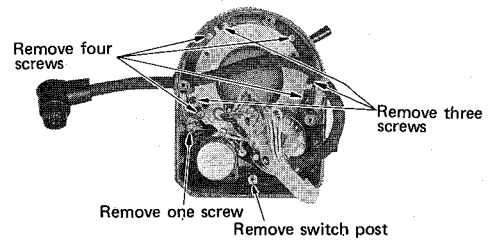
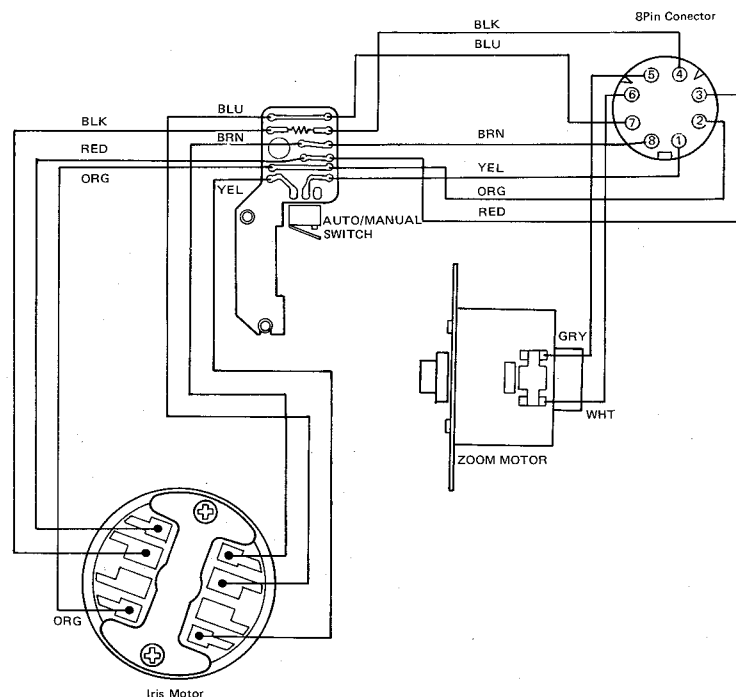


Fig. 7

WIRING DIAGRAM OF WV-LZ11/6



- Remove three screws which hold the ALC assembly and remove the ALC assembly. (Fig. 7)

Note : 1. When changing the switch board assembly, disconnect the twelve wires from the 8 pin connector and the ALC assembly.
 2. When changing the ALC assembly, disconnect the six wires from the switch board assembly.
 3. When changing the 8 pin connector, disconnect the eight wires and cut the binder.
 4. When changing the 8 pin connector, make sure that the binder is also replaced to new one if it is cut or deformed.
 5. When changing the binder, install the binder at 13cm from the 8 pin connector head.

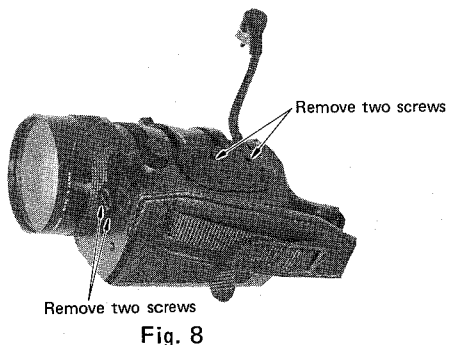
- Remove four screws which hold the iris cover and remove the iris cover. (Fig. 7)
- After replacing the parts, reinstall the lens in reverse order of disassembly procedure.
- When changing the lens mounting assembly, clean the lens with lens cleaning tissue.

CAMERA LENS FOR WV-LZ11/12

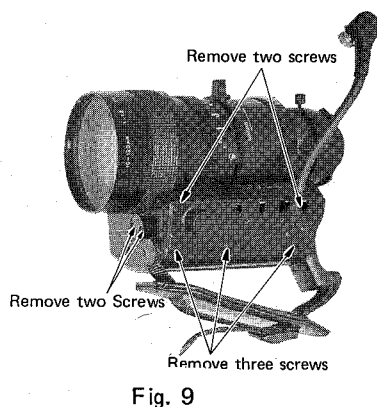
1 Disassembly Procedure

Note : Using the photograph of WV-LZ30/12

- Remove two screws which hold the grip pad and remove the grip pad. (Fig. 8)
- Remove two screws which hold the zoom panel and remove the zoom panel. (Fig. 8)



- Remove two screws which hold the zoom clutch knob and remove the zoom clutch knob. (Fig. 9)



- Remove six screws on the zoom unit cover A and B. (Fig. 10)

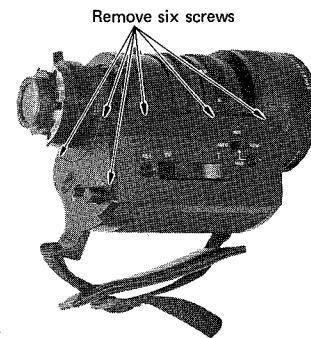


Fig. 10

- Remove two screws and three screws which hold the zoom unit cover A and B and remove the zoom unit cover A and B. (Fig. 9)
 (The hand hold belt should not be removed from the grip case.)
- Remove two screws which hold the bottom cover and remove the bottom cover.
- Remove four screws which hold the grip and remove the grip from the camera lens, if necessary. (Fig. 11, Fig. 12)

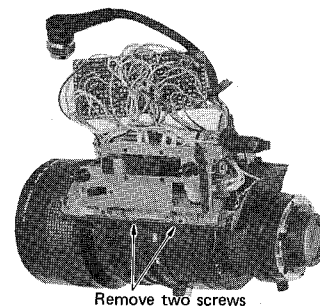


Fig. 11

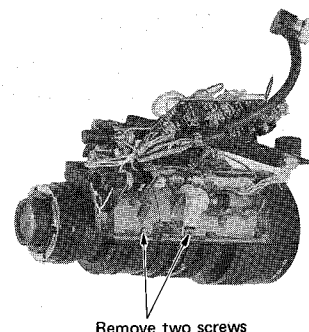


Fig. 12

Note : Make sure that the rotation of gear rotate smoothly after the zoom gear assembly, the iris gear and the like are repaired.

- Remove two screws which hold the lens control board and remove the lens control board for repair or/and parts exchange.

2 Electrical Adjustment Procedure

- Attach the digital voltmeter(DVM) plus side probe to the pin No. 13 of IC3 and attach the DVM minus side probe to the pin No. 9 of IC2.
- Adjust ZOOM POT/OFFSET PRESET VR1 for 2.5V.
- Attach the DVM plus side probe to pin NO. 14 of IC2 and attach the DVM minus side probe to the pin No. 12 of IC2.
- Make sure that this potential is $2.5V \pm 20mV$.
- Attach the DVM plus side probe to the crosspoint of R59 and R60, and attach the DVM minus side probe to the crosspoint of R58 and C10.
- Connect the jumper wire between the pin No. 4 of IC2 and the crosspoint of R34 and C11.
- Adjust OFFSET ADJ VR2 so that this potential between the DVM plus side probe and the DVM minus side probe becomes 0V.

3 Mechanical Adjustment Procedure

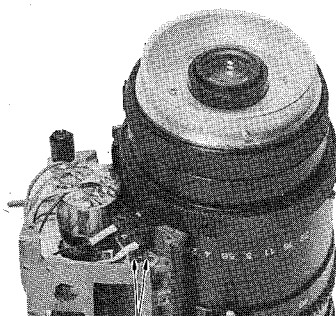
■ Zoom speed control

- Supply 12V DC to the pin E of 8 pin connector.
- Adjust ZOOM POT SET VR7 so that the zoom speed time of W(wide) to T(tele) and the zoom speed time of T to W becomes equal.

Note : 1. The zoom speed don't relate.

2. Push the POWER SERVO ZOOM CONTROL until it stops and quickly.

- Adjust SPEED ADJ VR3 so that the zoom speed time for tele or tele to wide becomes 3.7 sec.
- Adjustment of the micro switch
- Adjust the position of micro switch by two screws as follows. (Fig. 13)

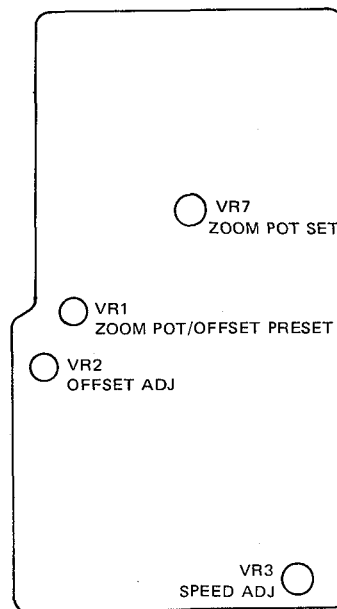


Adjust two screws

Fig. 13

1. When the iris ring is set at C position, the micro switch is OFF.
2. When the iris ring is set at A and AL position, the micro switch is ON.

LOCATION OF CONTROLS



CAMERA LENS FOR WV-LZ30/12

1 Disassembly Procedure

- Remove two screws which hold the grip pad and remove the grip pad. (Fig. 14)
- Remove two screws which hold the zoom panel and remove the zoom panel. (Fig. 14)

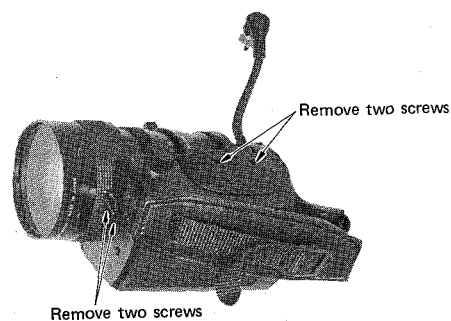


Fig. 14

- Remove two screws which hold the zoom clutch knob and remove the zoom clutch knob. (Fig. 15)

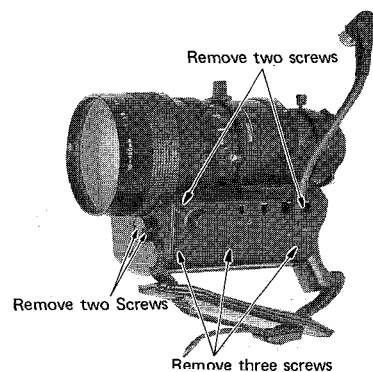


Fig. 15

- Remove six screws on the zoom unit cover A and B. (Fig. 16)

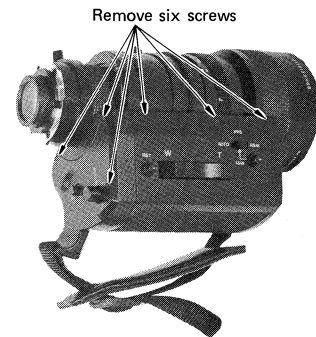


Fig. 16

- Remove two screws and three screws which hold the zoom unit cover A and B and remove the zoom unit cover A and B. (Fig. 9)
(The hand hold belt don't remove from the grip case.)
- Remove two screws which hold the bottom cover and remove the bottom cover.
- Remove four screws which hold the grip and remove the grip from the camera lens, if necessary. (Fig. 17, Fig. 18)

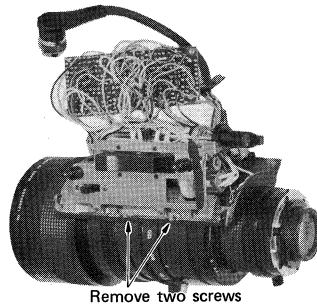


Fig. 17

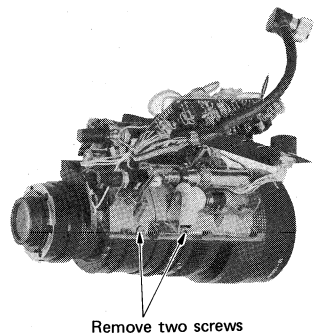


Fig. 18

Note: 1. Install the grip on the camera lens as follows.

- Set the lens iris to F5.6.
- Put together the black mark of potention gear to ▼ mark of F.f mark. (Fig. 19)

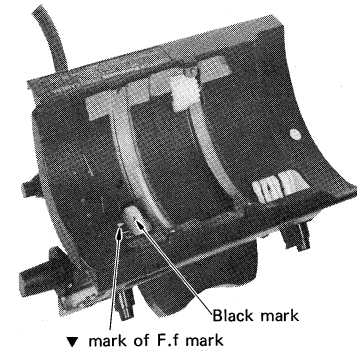


Fig. 19

- Install the grip to the camera lens.
- 2. Make sure that the rotation of gear rotate smoothly after the zoom gear assembly, the iris gear and the like are repaired.
- Remove two screws which hold the lens control board and remove the lens control board.

2 Electrical Adjustment Procedure

- Make sure that the camera operate normally.
- Attach the digital voltmeter(DVM) to the pin No. 12 of IC2.
- Make sure that the potential of pin No. 12 of IC2 is 5.1V.
- Attach the DVM plus side probe to the pin No. 4 of IC2 and attach the DVM minus side probe to the pin No. 9 of IC2.
- Adjust ZOOM POT/OFFSET PRESET VR1 so that this potential is 2.5V.
- Connect the jumper wire between the pin No. 4 of IC2 and the crosspoint of R34 and C11.
- Attach the DVM plus side probe of pin No. 14 of IC2 and Attach the DVM minus side probe to the pin No. 12 of IC2.
- Make sure that this potential is $2.5V \pm 20mV$.
- Attach the DVM plus side probe to the crosspoint of R59 and R60, and attach the DVM minus side probe to the crosspoint of R58 and C10.
- Adjust OFFSET ADJ VR2 so that this potential becomes 0V.
- Adjust ZOOM POT SET VR7 so that the zoom motor don't move when the zoom potention is set to center tap position.

3 Mechanical Adjustment Procedure

- Supply +12V DC to the pin E of 8 pin connector (Lens cable).
- Supply +8.2V DC to the pin B of 8 pin connector. (Lens cable).
- Adjust OPEN ADJ VR4 so that the iris ring opens fully.
- Supply +2.7V DC to the pin B of 8 pin connector (Lens cable).
- Adjust CLOSE ADJ VR5 so that the iris ring closes fully.

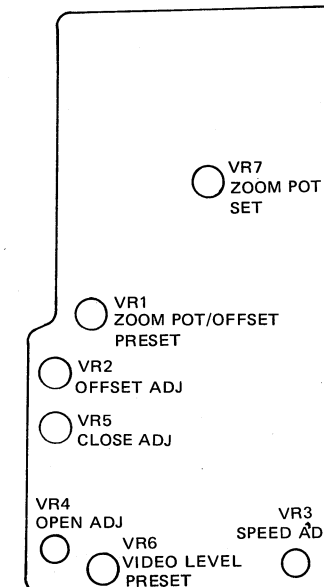
- Repeat this procedure until OPEN ADJ adjustment and CLOSE ADJ adjustment operates satisfy.
- Adjust ZOOM POT SET VR7 so that the zoom speed time of W (Wide) to T(Tele) and the zoom speed time of T to W becomes equal.

Note: 1. The zoom speed don t relate when do the ZOOM POT SET adjustment.

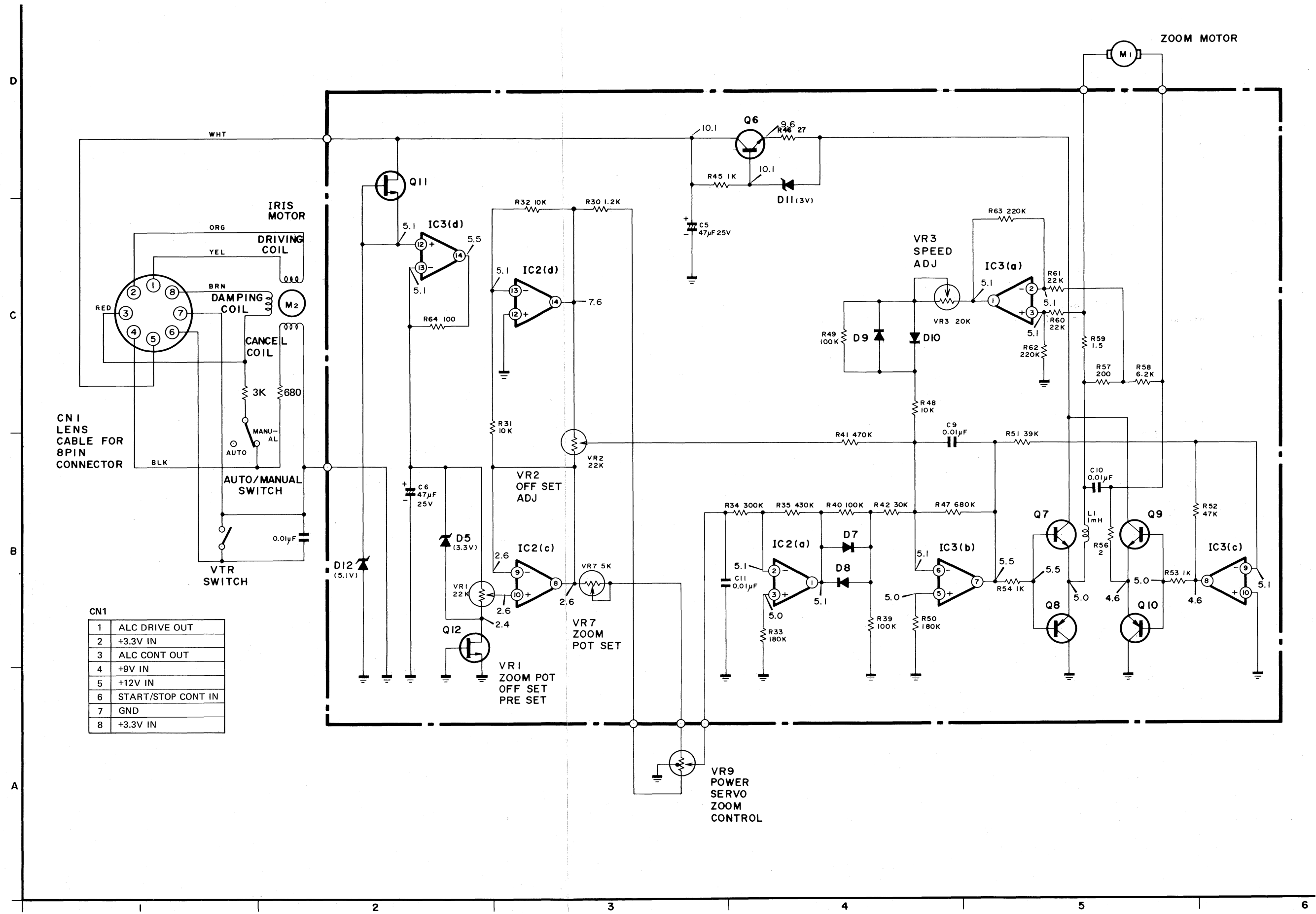
2. Push the POWER SERVO ZOOM CONTROL until it stops and quickly.

- Adjust SPEED ADJ VR3 so that the zoom speed time for tele or tele to wide becomes 3.7 sec.

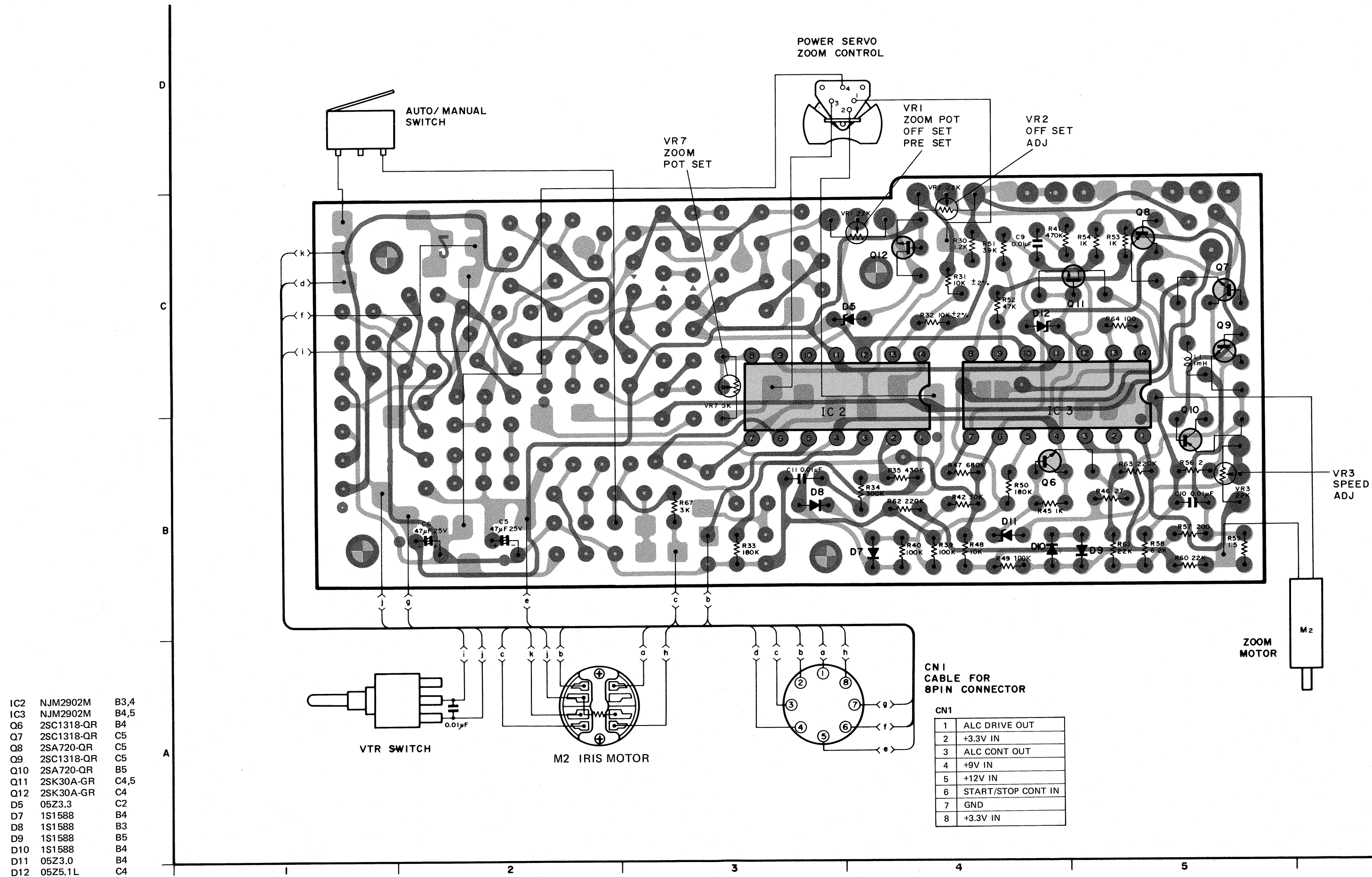
LOCATION OF CONTROLS



SCHEMATIC DIAGRAM OF LENS CONTROL BOARD FOR WV-LZ11/12



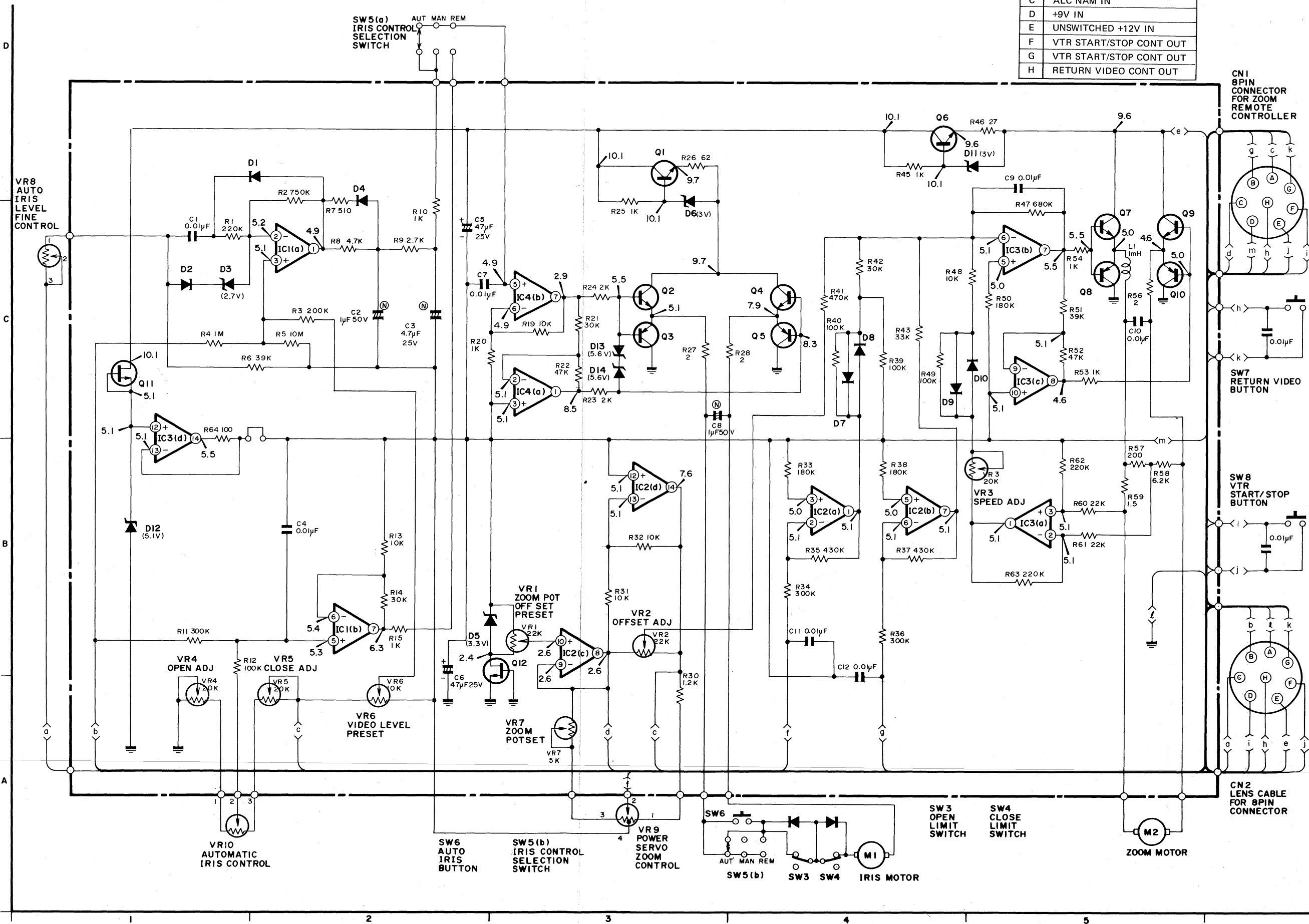
CONDUCTOR VIEW OF LENS CONTROL BOARD FOR WV-LZ11/12



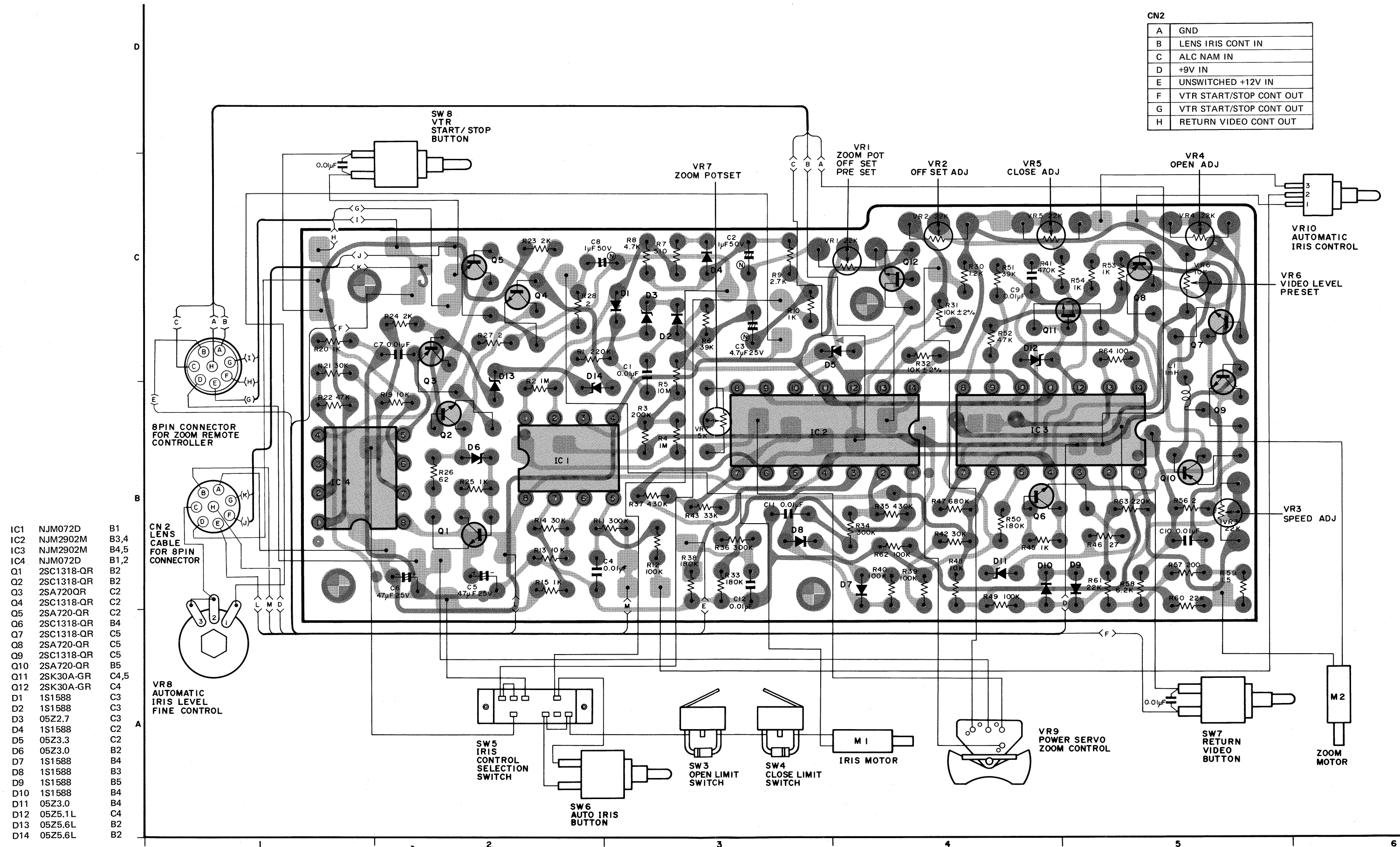
SCHEMATIC DIAGRAM OF LENS CONTROL BOARD FOR WV-LZ30/12

CN2	
A	GND
B	LENS IRIS CONT IN
C	ALC NAM IN
D	+9V IN
E	UNSWITCHED +12V IN
F	VTR START/STOP CONT OUT
G	VTR START/STOP CONT OUT
H	RETURN VIDEO CONT OUT

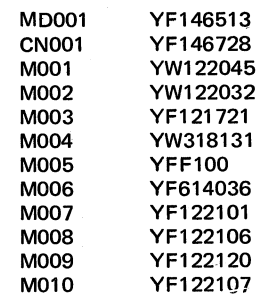
IC1	NJM072D	C2,B1
IC2	NJM2902M	B4,5
IC3	NJM2902M	B1,C5,B5
IC4	NJM072D	C3
Q1	2SC1318-QR	D3
Q2	2SC1318-QR	C3
Q3	2SA720-QR	C3
Q4	2SC1318-QR	C4
Q5	2SA720-QR	C4
Q6	2SC1318-QR	D4
Q7	2SC1318-QR	C5
Q8	2SA720-QR	C5
Q9	2SC1318-QR	C5
Q10	2SA720-QR	C5
Q11	2SK30A-GR	C1
Q12	2SK30A-GR	B3
D1	1S1588	D2
D2	1S1588	C1
D3	05Z2.7	C1
D4	1S1588	B2
D5	05Z3.3	B2,3
D6	05Z3.0	D3
D7	1S1588	C4
D8	1S1588	C4
D9	1S1588	C4
D10	1S1588	C4
D11	05Z3.0	D4
D12	05Z5.1L	B1
D13	05Z5.6L	C3
D14	05Z5.6L	C3



CONDUCTOR VIEW OF LENS CONTROL BOARD FOR WV-LZ30/12



WV-LZ 10/12



No.	Screw	Description
①	YFN204535N	Screws
②	YFN173030KB	Screws
③	YFN204030N	Screws
④	YFS204030N	Screws
⑤	YFN177030CB	Screws
⑥	YFN205030N	Screws

M015 YFV8QA0138AN
M016 YF701101
M017 YF701102
M018 YF97A17368A1
M019 YWT20x35C03
M020 YWT15x20C03
M021 YF121722

Exploded view diagram of the YF400031/YF146513 camera assembly. The diagram shows the main camera body (M006) with various lenses (M001, M002, M003, M004) and filters (M005, M007) attached. It also shows the mounting bracket (M008) with screws (M010, M011, M012) and the base plate (M009). The diagram is labeled with part numbers and assembly instructions.

Part numbers and assembly instructions:

- PCB001 YF400031 M006 YF614036
- MD001 YF146513 M007 YF400001

No.	Screw	Description
①	YFS204030N	Screws
②	YFN203035N	Screws
③	YF2X3KB	Screws
④	YFN172530KB	Screws
⑤	YFS172525CB	Screws
⑥	YFN206030N	Screws
⑦	YFN205030N	Screws

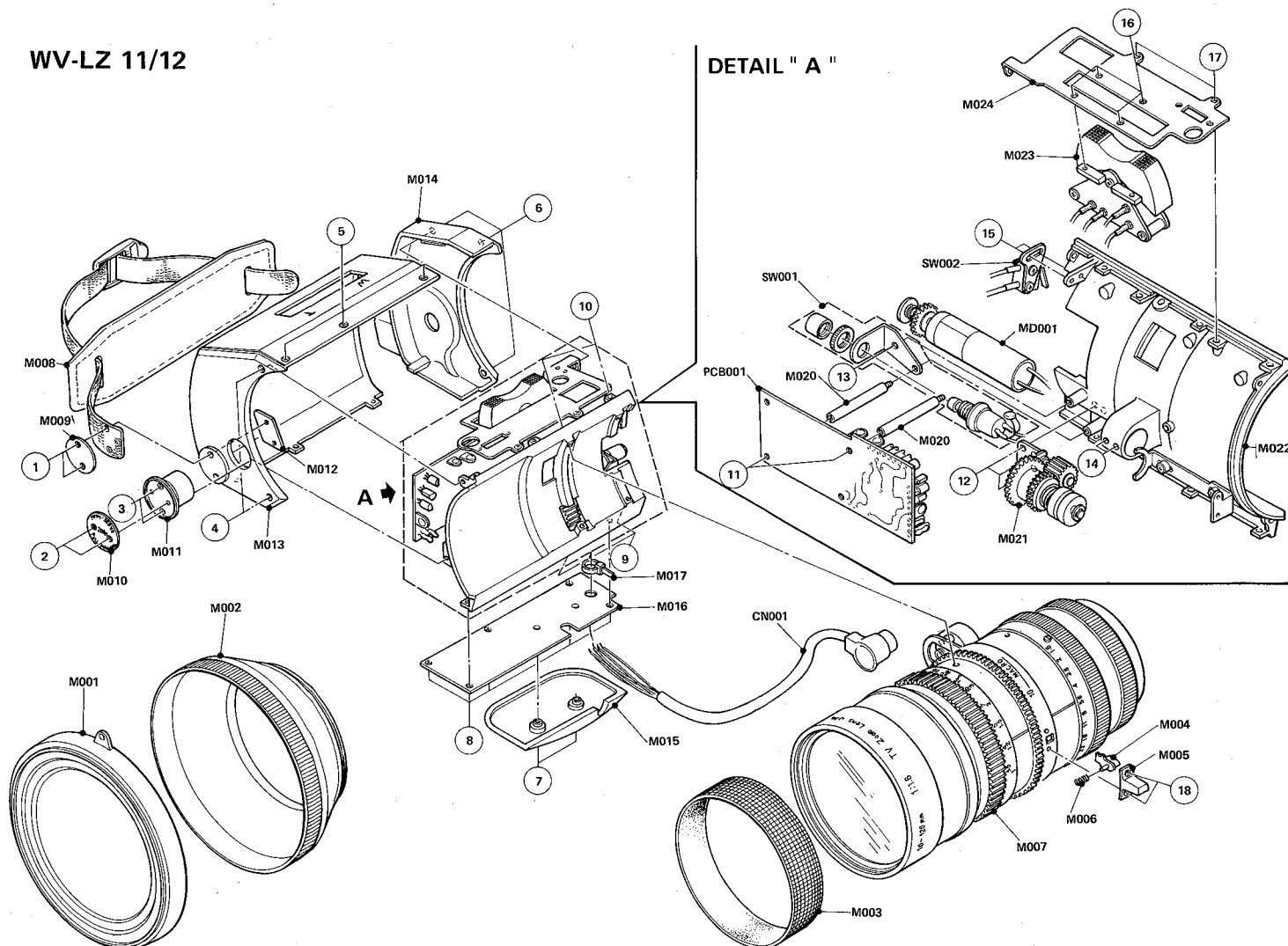
This diagram illustrates the exploded view of the YF400 camera assembly. It shows the following components and their assembly sequence:

- M033**: The main camera body, shown in two views (top and side).
- M034**: The lens mount, shown in two views (top and side).
- LENS**: The lens assembly, shown in a side view.

The assembly sequence is indicated by the exploded view, showing the lens being inserted into the lens mount (M034), which is then attached to the main camera body (M033).

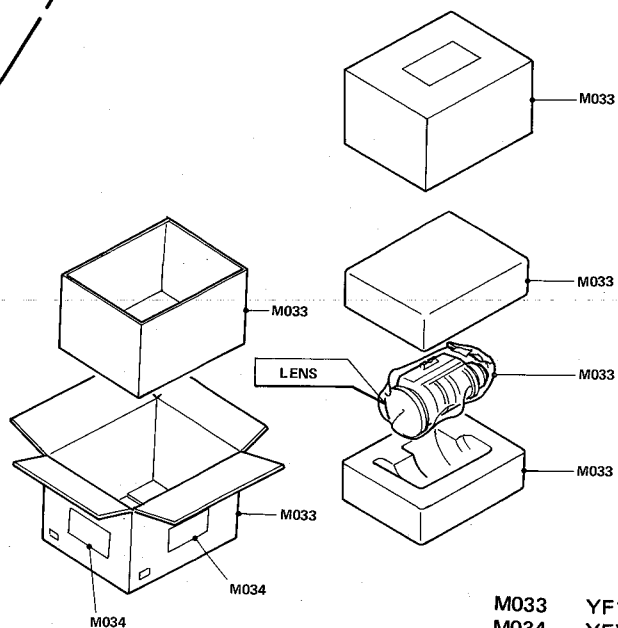
M033 YF40035
M034 YFV8FA0001A4

WV-LZ 11/12

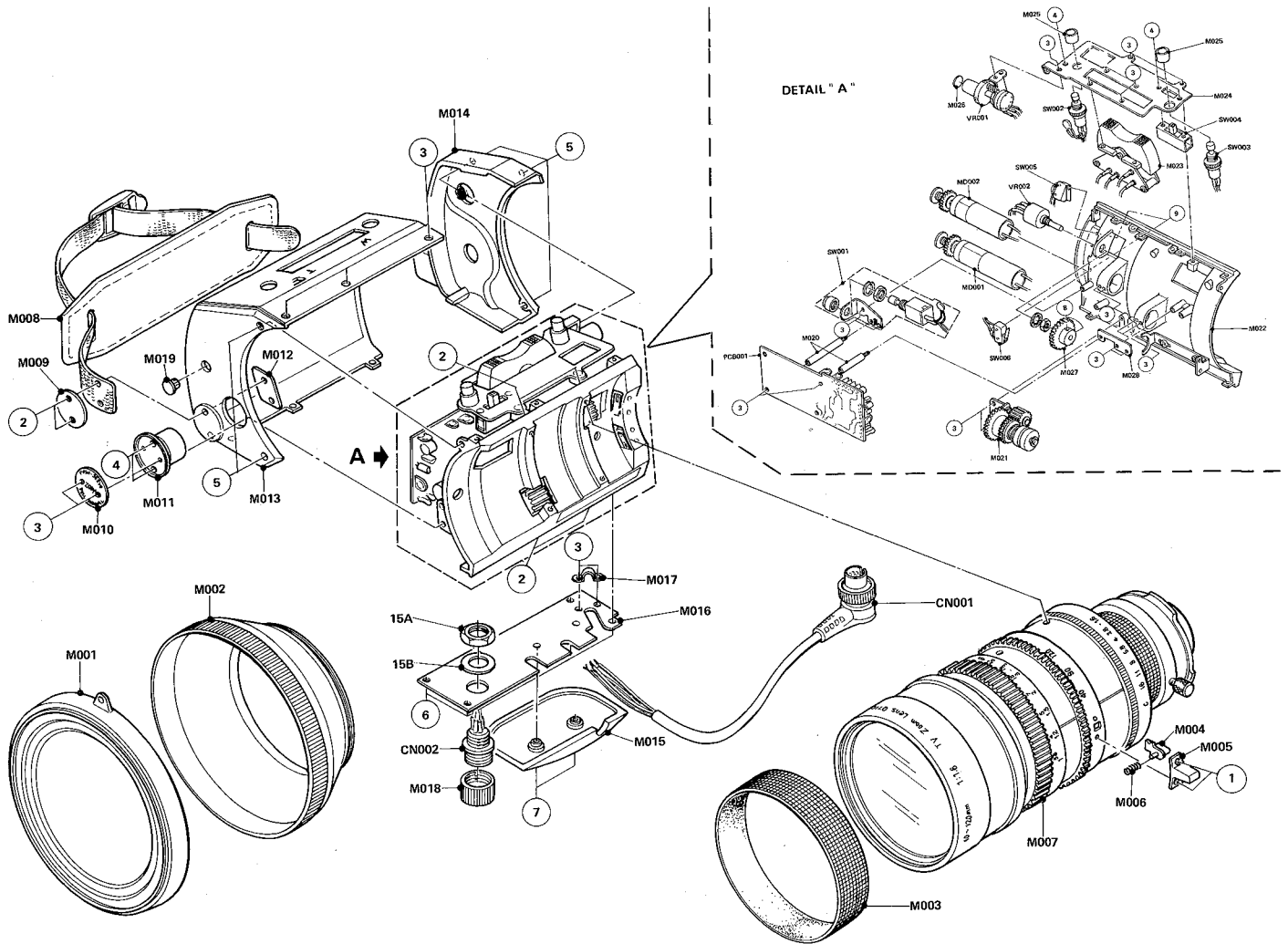


PCB001	YF106081	M010	YF108033
SW001	YF106033	M011	YF108032
SW002	YF106037	M012	YF108020
MD001	YF106201	M013	YF108003
CN001	YF108012	M014	YF108002
M001	YF121689	M015	YF108014
M002	YW122032	M016	YF108004
M003	YW122029	M017	YFF100
M004	YF121688	M020	YF108011
M005	YF616129	M021	YF108006
M006	YF616139	M022	YF108001
M007	YF121651	M023	YF108015
M008	YF108022	M024	YF108013
M009	YF128021		

PACKAGING



EXPLODED VIEW OF WV-LZ30/12



VR001 YF113006
 VR002 YF106034
 SW001 YF113013
 SW002,003 YF106033
 SW004 YF106305
 SW005,006 YF106037
 MD001 YF106201
 MD002 YF106031
 CN001 YF106306
 CN002 YF106039
 M001 YF121656
 M002 YF121653
 M003 YF102204
 M004 YF121688
 M005 YF616129
 M006 YF616139
 M007 YF121640
 M008 YF108021
 M009 YF108021
 M010 YF108033
 M011 YF108032
 M012 YF108020
 M013 YF113009
 M014 YF113008
 M015 YF108014
 M016 YF113010
 M017 YF113012
 M018 YF113023
 M019 YF614039

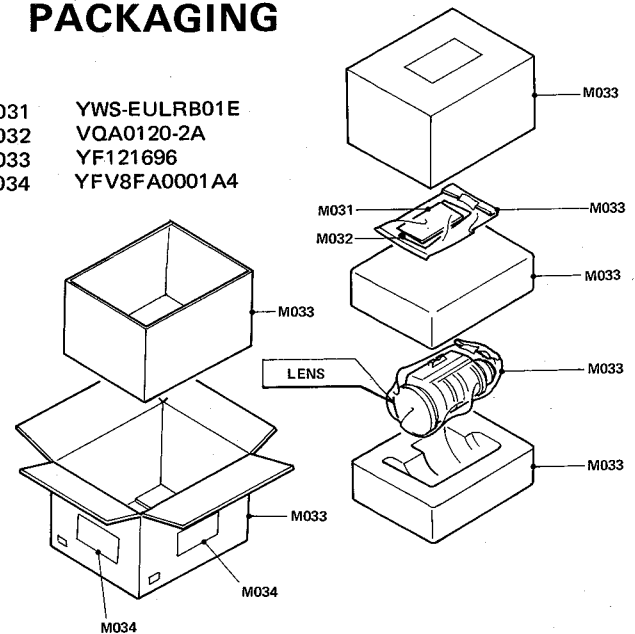
M020 YF113007
 M021 YF108006
 M022 YF113001
 M023 YF108015
 M024 YF108013
 M025 YF106029
 M026 YF106304
 M027 YF106011
 M028 YF113002

Numbers Show Screws

No.	Screws	Descriptio
①	YFN172525KB	Screws
②	YFN20903DKB	Screws
③	YFN203030KB	Screws
④	YFN2015D03KB	Screws
⑤	YFN206030KB	Screws
⑥	YFS203030KB	Screws
⑦	YFN205030KB	Screws
⑧	YFM2630KB	Screws
⑨	YFS143020KB	Screws

PACKAGING

M031 YWS-EULRB01E
 M032 VQA0120-2A
 M033 YF121696
 M034 YFV8FA0001A4



REPLACEMENT PARTS LIST

Important Notice

- Components identified by Δ mark have special characteristics important for safety.
When replacing any of these components, use only manufacturer's specified parts.
- Components identified by * mark are new parts used from this model.

SYM-BOL NO.	PART NO.	DESCRIPTION	SYM-BOL NO.	PART NO.	DESCRIPTION
WV-LZ10/12 ZOOM LENS			WV-LZ11/12 ZOOM LENS		
MISCELLANEOUS			MISCELLANEOUS		
MD001 *	YF146513	Zoom Motor Ass'y	SW001 *	YF106033	VTR Switch Ass'y
CN001 *	YF146728	8 pin Connector Wire Ass'y	SW002 *	YF106037	Micro Switch
M001 *	YW122045	Hood Cap	MD001 *	YF106201	Zoom Motor Ass'y
M002 *	YW122032	Lens Hood	CN001 *	YF108012	8 pin Connector Wire Ass'y
M003 *	YF121721	Focus Lens Ass'y	M001 *	YF121689	Hood Cap
M004 *	YW318131	Zoom Lever	M002 *	YW122032	Lens Hood
M005 *	YFF100	Cord Clamp	M003 *	YW122029	Focus Band
M006 *	YF614036	Cushion Rubber	M004 *	YF121688	Macro Knob
M007 *	YF122101	Iris Cover	M005 *	YF616129	Zoom Lever
M008 *	YF122106	ALC Ass'y	M006 *	YF616139	Spring for Macro Knob
M009 *	YF122120	Lens Mounting Ass'y	M007 *	YF121651	Zoom Lens Unit
M010 *	YF122107	Iris Rear Cover	M008 *	YF108022	Hand Hold Belt Ass'y
ACCESSORY PARTS/PACKAGING PARTS			M009 *	YF108021	Mounting Plate A for Belt
M015 *	YFV8QA0138AN	Operating Instruction	M010 *	YF108033	Zoom Clutch Label
M016 *	YF701101	C Mounting Adaptor	M011 *	YF108032	Zoom Clutch Lever
M017 *	YF701102	C Mounting Adaptor Jig	M012 *	YF108020	Mounting Plate B for Belt
M018 *	YF97A17368A1	Soft Case	M013 *	YF108003	Zoom Unit Cover A
M019 *	YWT20x35C03	Polyethylene Bag for Lens	M014 *	YF108002	Zoom Unit Cover B
M020 *	YWT15x20C03	Polyethylene Bag for Soft Case	M015 *	YF108014	Grip Pad
M021 *	YF121722	Packaging Case	M016 *	YF108004	Bottom Cover
WV-LZ11/6 ZOOM LENS			M017 *	YFF100	Cord Clamp
MISCELLANEOUS			M020 *	YF108011	Mounting Shaft for Board (x2)
PCB001 *	YF400031	Switch Board	M021 *	YF108006	Zoom Gear Ass'y
MD001 *	YF146513	Zoom Motor Ass'y	M022 *	YF108001	Zoom Grip Cover C
CN001 *	YW614035	8 pin Connector Wire Ass'y	M023 *	YF108015	Zooming Knob Ass'y
M001 *	YF146624	Hood Cap	M024 *	YF108013	Mounting Plate for Zooming Knob
M002 *	YF146612	Lens Hood	YF106081 LENS CONTROL BOARD		
M003 *	YF400034	Focus Lens Ass'y	PCB001 *	YF106081	Printed Circuit Board Ass'y
M004 *	YW318131	Zoom Lever	IC2,3	NJM2902M	IC
M005 *	YFF100	Cord Clamp	Q6,7	2SC1318-QR	Transistor
M006 *	YF614036	Cushion Rubber	Q8	2SA720-QR	Transistor
M007 *	YF400001	Iris Cover	Q9	2SC1318-QR	Transistor
M008 *	YF400025	ALC Ass'y	Q10	2SA720-QR	Transistor
M009 *	YF400033	Lens Mounting Ass'y	Q11,12	2SK30A-GR	Transistor
M010 *	YF146708	Iris Rear Cover	D5	05Z3.3	Diode
M011 *	YF400024	Spacer for Board	D7~10	IS1588	Diode
M012 *	YF400032	Iris Select Knob	D11	05Z30	Diode
ACCESSORY PARTS/PACKAGING PARTS			D12	05Z5.1	Diode
M033 *	YF40035	Packaging Case	R30	ERD25FJ122	Carbon 1.2K Ω 1/4W
M034 *	YFV8FA0001A4	Packaging Label	R31,32	ERD25FJ103	Carbon 10K Ω 1/4W
			R33	ERD25FJ184	Carbon 180K Ω 1/4W
			R34	ERD25FJ304	Carbon 300K Ω 1/4W
			R35	ERD25FJ434	Carbon 430K Ω 1/4W
			R39,40	ERD25FJ104	Carbon 100K Ω 1/4W
			R41	ERD25FJ474	Carbon 470K Ω 1/4W
			R42	ERD25FJ303	Carbon 30K Ω 1/4W

SYM-BOL NO.	PART NO.	DESCRIPTION	SYM-BOL NO.	PART NO.	DESCRIPTION
R45	ERD25FJ102	Carbon 1K Ω 1/4W	M016	* YF113010	Bottom Cover
R46	ERD25FJ270	Carbon 27 Ω 1/4W	M017	* YF113012	Cord Clamp
R47	ERD25FJ684	Carbon 680K Ω 1/4W	M018	* YF113023	8 pin Connector Cap
R48	ERD25FJ103	Carbon 10K Ω 1/4W	M019	* YF614039	Protective Cap
R49	ERD25FJ104	Carbon 100K Ω 1/4W	M020	* YF113007	Mounting Shaft for Board (x2)
R50	ERD25FJ184	Carbon 180K Ω 1/4W	M021	* YF108006	Zoom Gear Ass'y
R51	ERD25FJ393	Carbon 39K Ω 1/4W	M022	* YF113001	Zoom Grip Cover
R52	ERD25FJ473	Carbon 47K Ω 1/4W	M023	* YF108015	Zooming Knob Ass'y
R53,54	ERD25FJ102	Carbon 1K Ω 1/4W	M024	* YF108013	Mounting Plate for Zooming Knob
R56	ERD25FJ2R0	Carbon 2 Ω 1/4W	M025	* YF106029	Switch Decoration Ring (x2)
R57	ERD25FJ201	Carbon 200 Ω 1/4W	M026	* YF106304	Fine Control Label
R58	ERD25FJ622	Carbon 6.2K Ω 1/4W	M027	* YF106011	Fade Gear
R59	ERD25FJ1R5	Carbon 1.5 Ω 1/4W	M028	* YF113002	Mounting Bracket for Board
R60,61	ERD25FJ223	Carbon 22K Ω 1/4W	YF113011 LENS CONTROL BOARD		
R62,63	ERD25FJ224	Carbon 220K Ω 1/4W			
R64	ERD25FJ101	Carbon 100 Ω 1/4W	PCB001	* YF113011	Printed Circuit Board Ass'y
VR1,2	YFRGP-22K	Variable Resistor 22K Ω	IC1	NJM072D	IC
VR3	YFRGP-20K	Variable Resistor 20K Ω	IC2,3	NJM2902M	IC
VR7	YFG6A-05K	Variable Resistor 5K Ω	IC4	NJM072D	IC
C5,6	ECEA1ESS470	Electrolytic 47 μ F 25V	Q1,2	2SC1318-QR	Transistor
C9 11	ECCF1H103K	Ceramic 0.01 μ F 50V	Q3	2SA720-QR	Transistor
L1	YFLAL04-1MH	Coil 1mH	Q4	2SC1318-QR	Transistor
ACCESSORY PARTS/PACKAGING PARTS			Q5	2SA720-QR	Transistor
M033	* YF121695	Packaging Case	Q6,7	2SC1318-QR	Transistor
M034	* YFV8F0001A4	Packaging Label	Q8	2SA720-QR	Transistor
WV-LZ30/12 ZOOM LENS			Q9	2SC1318-QR	Transistor
MISCELLANEOUS			Q10	2SA720-QR	Transistor
VR001	* YF113006	Fine Control Ass'y	Q11,12	2SK30A-GR	Transistor
VR002	* YF106034	Variable Resistor	D1,2	IS1588	Diode
SW001	* YF113013	Push Switch A Ass'y	D3	05Z2.7	Diode
SW002,003	* YF106033	Push Switch B (x2)	D4	IS1588	Diode
SW004	* YF106305	Slide Switch	D5	05Z3.3	Diode
SW005,006	* YF106037	Micro Switch (x2)	D6	05Z3.0	Diode
MD001	* YF106201	Zoom Motor Ass'y	D7~10	IS1588	Diode
MD002	* YF106031	Iris Motor Ass'y	D11	05Z3.0	Diode
CN001	* YF106306	8 pin Connector Wire Ass'y	D12	05Z5.1L	Diode
CN002	* YF106039	8 pin Connector	D13,14	05Z5.6L	Diode
M001	* YF121656	Hood Cap	R1	ERD25FJ224	Carbon 220K Ω 1/4W
M002	* YF121653	Lens Hood	R2	ERD25FJ754	Carbon 750K Ω 1/4W
M003	* YF102204	Focus Band	R3	ERD25FJ204	Carbon 200K Ω 1/4W
M004	* YF121688	Macro Knob	R4	ERD25FJ105	Carbon 1M Ω 1/4W
M005	* YF616129	Zoom Lever	R5	ERC14GJ106	Solid 10M Ω 1/4W
M006	* YF616139	Spring for Macro Knob	R6	ERD25FJ393	Carbon 39K Ω 1/4W
M007	* YF121640	Zoom Lens Unit	R7	ERD25FJ511	Carbon 510 Ω 1/4W
M008	* YF108022	Hand Hold Belt Ass'y	R8	ERD25FJ472	Carbon 4.7K Ω 1/4W
M009	* YF108021	Mounting Plate for Hand Belt	R9	ERD25FJ272	Carbon 2.7K Ω 1/4W
M010	* YF108033	Zoom Clutch Label	R10	ERD25FJ102	Carbon 1K Ω 1/4W
M011	* YF108032	Zoom Clutch Lever	R11	ERD25FJ304	Carbon 300K Ω 1/4W
M012	* YF108020	Mounting Plate for Hand Belt	R12	ERD25FJ104	Carbon 100K Ω 1/4W
M013	* YF113009	Zoom Unit Cover B	R13	ERD25FJ103	Carbon 10K Ω 1/4W
M014	* YF113008	Zoom Unit Cover A	R14	ERD25FJ303	Carbon 30K Ω 1/4W
M015	* YF108014	Grip Pad	R15	ERD25FJ102	Carbon 1K Ω 1/4W
			R19	ERD25FG1002	Carbon 10K Ω 1/4W
			R20	ERD25FJ102	Carbon 1K Ω 1/4W
			R21	ERD25FJ303	Carbon 30K Ω 1/4W

SYM-BOL NO.	PART NO.	DESCRIPTION		SYM-BOL NO.	PART NO.	DESCRIPTION
R22	ERD25FJ473	Carbon	47K Ω	1/4W		
R23~25	ERD25FJ202	Carbon	2K Ω	1/4W		
R26	ERD25FJ620	Carbon	62 Ω	1/4W		
R27,28	ERD25FJ2R0	Carbon	2 Ω	1/4W		
R30	ERD25FJ122	Carbon	1.2K Ω	1/4W		
R31	ERD25FG1002	Carbon	10K Ω	1/4W		
R32	ERD25FJ103	Carbon	10K Ω	1/4W		
R33	ERD25FJ184	Carbon	180K Ω	1/4W		
R34	ERD25FJ304	Carbon	300K Ω	1/4W		
R35	ERD25FJ434	Carbon	430K Ω	1/4W		
R36	ERD25FJ304	Carbon	300K Ω	1/4W		
R37	ERD25FJ434	Carbon	430K Ω	1/4W		
R38	ERD25FJ184	Carbon	180K Ω	1/4W		
R39,40	ERD25FJ104	Carbon	100K Ω	1/4W		
R41	ERD25FJ474	Carbon	470K Ω	1/4W		
R42	ERD25FJ303	Carbon	30K Ω	1/4W		
R43	ERD25FJ333	Carbon	33K Ω	1/4W		
R45	ERD25FJ102	Carbon	1K Ω	1/4W		
R46	ERD25FJ270	Carbon	27 Ω	1/4W		
R47	ERD25FJ684	Carbon	680K Ω	1/4W		
R48	ERD25FJ103	Carbon	10K Ω	1/4W		
R49	ERD25FJ104	Carbon	100K Ω	1/4W		
R50	ERD25FJ184	Carbon	180K Ω	1/4W		
R51	ERD25FJ393	Carbon	39K Ω	1/4W		
R52	ERD25FJ473	Carbon	47K Ω	1/4W		
R53,54	ERD25FJ102	Carbon	1K Ω	1/4W		
R56	ERD25FJ2R0	Carbon	2 Ω	1/4W		
R57	ERD25FJ201	Carbon	200 Ω	1/4W		
R58	ERD25FJ622	Carbon	6.2K Ω	1/4W		
R59	ERD25FJ1R5	Carbon	1.5 Ω	1/4W		
R60,61	ERD25FJ223	Carbon	22K Ω	1/4W		
R62	ERD25FJ224	Carbon	220K Ω	1/4W		
R63	ERD25FJ224	Carbon	220K Ω	1/4W		
R64	ERD25FJ101	Carbon	100 Ω	1/4W		
VR1,2	YFRGP-22K	Variable Resistor	22K Ω			
VR3~5	YFRGP-20K	Variable Resistor	20K Ω			
VR6	YFTM64-10K	Variable Resistor	10K Ω			
VR7	YFG6A-05K	Variable Resistor	5K Ω			
C1	ECCF1H103K	Ceramic	0.01 μ F	50V		
C2	ECEA1HN010S	Electrolytic	1 μ F	50V		
C3	ECEA1EN4R7S	Electrolytic	4.7 μ F	25V		
C4	ECCF1H103K	Ceramic	0.01 μ F	50V		
C5,6	ECEA1ESS470	Electrolytic	47 μ F	25V		
C7	ECCF1H103K	Ceramic	0.01 μ F	50V		
C8	ECEA1HN010S	Electrolytic	1 μ F	50V		
C10~12	ECCF1H103K	Ceramic	0.01 μ F	50V		
L1	YFLAL04-1MH	Coil	1mH			
ACCESSORY PARTS/PACKAGING PARTS						
M031	YWS-EULRB01E	Service Center List				
M032	VQA0120-2A	Warranty Card				
M033	* YF121696	Packaging Case				
M034	* YFV8FA0001A4	Packaging Label				